Published before July 2003
Terms used: **data flow** and **call graph** and **static**

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41 Parametric shape analysis via 3-valued logic
Mooly Sagiv, Thomas Reps, Reinhard Wilhelm
May 2002 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 24 Issue 3
Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings, index terms

Shape analysis concerns the problem of determining "shape invariants" for programs that perform destructive updating on dynamically allocated storage. This article presents a parametric framework for shape analysis that can be instantiated in different ways to create different shape-analysis algorithms that provide varying degrees of efficiency and precision. A key innovation of the work is that the stores that can possibly arise during execution are represented (conservatively) using 3-valued l ...

Keywords: 3-valued logic, Abstract interpretation, alias analysis, constraint solving, destructive updating, pointer analysis, shape analysis, static analysis

42 Undecidability of context-sensitive data-independence analysis
Thomas Reps
January 2000 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 22 Issue 1
Publisher: ACM Press

Full text available: pdf(228.77 KB) Additional Information: full citation, abstract, references, citings, index terms

A number of program-analysis problems can be tackled by transforming them into certain kinds of graph-reachability problems in labeled directed graphs. The edge labels can be used to filter out paths that are not interest: a path P from vertex s to vertex t only counts as a"valid connection" between s and t if the word spelled out by P is in a certain language. Often the languag ...

Keywords: ∞ , context-sensitive program-analysis, control-flow analysis, dependence analysis, graph-reachability problem, linear matche-parenthesis language, set constraints, set-based analysis, structure-transmitted data-dependence

43 The program dependence graph and its use in optimization
Jeanne Ferrante, Karl J. Ottenstein, Joe D. Warren
July 1987 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 9 Issue 3

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L2	L1 and (@ad<20030626 or @rlad<20030626 or @prad<20030626)	14	L2
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